

[illegible]

The disclosure relates to a method for decoding a received signal comprising symbols which are distributed in space and time with the aid of a space-time coding matrix, comprising a space-time decoding stage and at least two iterations, each of which comprising the following sub-stages: diversity pre-decoding, the opposite of diversity pre-decoding carried out when the signal is emitted, providing precoded data; estimation of symbols forming said signal on the basis of said pre-decoded data, providing estimated symbols; diversity precoding identical to diversity precoding carried out during emission, applied to the estimated symbols in order to provide an estimated signal.